ssue Date	Title	Current OR	Current XRef	Retrieval Classif	Inventor
0020103	Serial recording apparatus	400/582	400/578		Hayashi, Yoshinori et al.
20020402		400/582	400/578		Lesniak, Christopher M. et al.
20011106		400/578	347/104		Nureki, Shinji
20010206		400/582	400/578		Kono, Takeshi
19940503	1	400/618	400/625; 400/636.2	400/625	Yamaguchi, Naoto
19930831	Sheet conveyor apparatus with slip transmission	346/134	271/272; 346/136; 400/625; 400/636; 400/636.2	400/625	Chiku, Kazuyoshi
19910924	Sheet feeding apparatus	400/625	271/116; 271/242; 271/902; 400/629	400/625	Takagi, Kazuhiko et al.
19920922	Selectively actuatable multiple medium feed mechanism for a micro printer	400/608.4	192/26; 400/585.1; 400/607		Narita, Hiroshi
19850528	Electronically gated paper aligner system	399/394	271/226; 271/248; 271/258.01; 271/258.03; 271/270; 347/153; 355/1; 358/296;		Barker, Robert B. et al.
	Document ID         Issue Date           US 20020001499 A1         20020103           US 6364551 B1         20020402           US 6312177 B1         20011106           US 6183151 B1         20010206           US 5308176 A         19940503           US 5241331 A         19910924           US 5149217 A         19920922           US 4519700 A         19850528		Serial recording apparatus  Media advance system for a printer  Line printer  Sheet feeding apparatus  Apparatus for conveying paper in a printer  Apparatus for conveying paper in a printer  Sheet conveyor apparatus  Sheet feeding apparatus  Sheet feeding apparatus  Selectively actuatable multiple medium feed  mechanism for a micro printer  Belectronically gated paper aligner system  Electronically gated paper aligner system  300	Serial recording apparatus	Serial recording apparatus

01/09/2003, EAST Version: 1.03.0002

Document ID Issue Date	Issue Date	Title	Current OR	Current XRef	Current XRef Retrieval Classif	Inventor
IO US 6298778 B1	20011009	20011009 Sheet feeding device for a printer	101/232	101/116; 101/118; 101/216; 271/10.05; 271/10.12; 271/10.13; 271/161;	,	Onodera, Takayuki et al.

01/09/2003, EAST Version: 1.03.0002

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L Number		Search Text	.⊥V	2002/12/30 11:23
	552	(400/623).CCLS.	ë	67:11 06:21 7002
			EPO; JPO;	
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			IBM_TDB	
	159	(400/624).CCLS.	USPAT;	2002/12/24 10:51
	_	_	US-PGPUB;	
			EPO; JPO;	
			DERWENT,	
			IBM IDB	C\$-01 PGC1/C00C
	1221	(400/636).CCLS.	USPAT;	70.01 +7/71/7007
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			provided,	
			DEKWENI;	
			IBM_IDB	C3.01 F.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C
•	839	(400/578).CCL.S.	USPAT;	76.01 47/71/2007
	_	_	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
	36	יייייייייייייייייייייייייייייייייייייי	USPAT;	2002/12/24 10:53
	?		US-PGPUB:	
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	-		USPAT	2002/12/24 11:02
	3	((40W62),CCLS.) and (backiash of return)	US-PGPUB:	
			EPO: JPO:	
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			IRM TDB	
	:		USPAT	2002/12/24 10:55
•	=	((400/024).CCLS.) and (backlash of fetun)	US-PGPUB.	
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
	77.1	((ADDEAS) PCI (S) and (backlach or return)	USPAT;	2002/12/24 10:55
·_	961		US-PGPUB;	
			EPO; JPO;	
			DERWENT	
			IBM_TDB	
	Ş	(MANNETO) OCT (S) and (hardelach or return)	USPAT;	2002/12/24 10:56
	76		US-PGPUB;	
			DERWENT;	
			IBM TDB	

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		((400/271).CCLS.) and (backlash or return)		2002/12/24 10:56
			EPO; JPO; DERWENT; IBM TDB	
	185	(/400/625) CCLS.) and (advanc\$5 or convev\$5)	_	2002/12/24 11:15
	}		US-PGPUB;	
			DERWENT;	
			IBM_TDB	10.11.10.000
	179	((400/624).CCLS.) and (advanc\$5 or convey\$5)		700717774 11:04
		о ш	EPO; JPO;	
			DERWENT;	
			IBM_TDB	2002/12/24 11:04
•	740	((400/059):/CLE.) and (advance) or conveye.)	US-PGPUB;	
		3	EPO; JPO;	
		a :	DERWENT;	
	-		USPAT:	2002/12/24 11:04
	2	((400/278).cc.c.) and (advances) or conveye.)	US-PGPUB;	
	_		EPO, JPO;	
			DERWENT,	_
	_	(400021) CCLS.) and (advanc\$5 or convev\$5)	USPAT;	2002/12/24 11:07
			US-PGPUB;	
			DERWENT;	
			IBM_TDB	01.11
•	135	(((400/625).CCL.S.) and (advanc\$5 or convey\$5)) and motor\$1	USPAT:	2002/12/24 11:18
			DS-PGPUB;	
			DERWENT;	·
			IBM_TDB	31.11.70000
•	811	(((400/624).CCL.S.) and (advanc\$5 or convey\$5)) and motor\$!	USPAT;	2007/17/24 11:10
			FPO IPO	
			DERWENT;	
			IBM_TDB	91.11 82/21/2006
<u>.</u>	148	(((400/636).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1	US-PGPUB;	
		:	EPO, JPO;	
_			DERWENT;	
			IBM IDB	

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	16	11 (((ADD/CTR) CCI S) and (advances or conveyss)) and motors!	USPAT;	2002/12/24 11:17
			US-PGPUB;	
			EPO; JPO;	
			IBM TDB	
	-	(((Adoptical College of Sales)) and (advances) and motors)	USPAT;	2002/12/24 11:17
•	-		US-PGPUB;	
			EPO, JPO;	
			DERWENT;	
			BUL WEI	01:11:0000
	125	((((400/625).CCL.S.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1	USPAT;	2002/12/24 11:19
	_		US-PGPOB;	
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	:		USPĀT:	2002/12/24 11:19
Ĩ	È	((((400/624).CCLS.) and (advances of conveyes)) and injurys and	US-PGPUB:	
			EPO; JPO;	
-	_		DERWENT;	
			IBM_TDB	
	142	((((400/636).CCL.S.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1	USPAT;	2002/12/24 11:19
			US-PGPUB;	
			DEBMENT.	
			IBM TDB	
	,		IISPAT:	2002/12/24 11:20
	<del>-</del>	((((400/5/8).C.C.E.S.) and (advance) or conveyes)) and motors i) and rollers i	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
•	_	(((400271).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1	USPAT;	2002/12/24 11:20
			US-PGPUB;	
			DEP WENT	
			IBM TOB	
			USPAT	2002/12/24 11:21
	56	(((((400/622), CCLS.) and (advance) of conveyes)) and motors () and rotters () and geas ()	US-PGPUB:	
_			FPO: IPO:	
			DERWENT:	
_			IBM TDB	
			USPAT:	2002/12/24 11:21
•	08	(((((400/024)CL.S.) and (advance) of conveyes)) and motions) and becase	US-PGPUB;	
_			EPO; JPO;	
			DERWENT;	
_			IBM TDB	

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	87	((((400/636).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and gear\$1	USPAT;	2002/12/24 11:21
			EPO; JPO; DERWENT; IRM TTB	
***	37	(((((400/578).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and gear\$1	USPAT; US-PGPUB;	2002/12/24 11:22
	•		EPO; JPO; DERWENT; IBM TDB	
	0	((((400/271),CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and gear\$1	USPĀT; US-PGPUB;	2002/12/24 11:23
			EPO; JPO; DERWENT;	
	\$	And the second s	IBM_TDB USPAT;	2002/12/24 11:24
	<u> </u>		US-PGPUB;	
			DERWENT;	
	99	(((((400/636).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and predetermined	USPAT;	2002/12/24 11:25
_			EPO; JPO;	
			DERWENT; IBM_TDB	
	22	(((((400/578).CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and predetermined	USPAT; US-PGPUB;	2002/12/24 11:25
			EPO; JPO; DERWENT;	
	09	(((((400/625),CCLS.) and (advanc\$5 or convey\$5)) and motor\$1) and roller\$1) and gear\$1) and predetermined	IBM_TDB USPAT;	2002/12/26 10:27
			US-PGPUB; EPO; JPO;	
			DERWENT, IBM TDB	
	096	print\$4 same reduction same (media or medium or paper\$1 or sheet\$1 or substrate\$1) same position\$1	USPĀT; US-PGPUB:	2002/12/26 14:30
			EPO, JPO;	
			IBM_TDB	2002/12/26 15:44
	6	(prints4 same reduction same (media of medium of papers) of streets) of substitute positions (prints4 same reduction same (media of medium of papers) of streets) of substitute positions (prints4 same reduction same (media of medium of papers) of streets	US-PGPUB;	
-			EPO; JPO; DERWENT:	
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		1 21 1 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I ICD AT.	13.51 30,01/0000
•	102	((pnin\$4 same reduction same (media or medium or paper\$1 or sheet\$1 or substrate\$1) same position\$1) and step\$4 adj motor\$1) and conition\$4	US-PGPUB:	
			EDO: 190:	
_			DERWENT.	
			IBM TDB	
	•		USPAT	2002/12/26 16:05
•	70		US-PGPUB:	_
			EPO: JPO:	
			DERWENT	
			IBM TDB	
			USPAT	2002/12/26 16:14
•	23	((((pmil\$4 same reduction same (media or medium or papers) for success) is same positions ) and steps+ and informations of medium or papers) and medium or papers of success (((pmil\$4 same reduction same (media or medium) or papers) and medium or papers).	US-PGPUB:	
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	!		I ISPAT:	2002/12/26 16:14
	53	((((prints same reduction same (mediam or papers) or sneets) or substrates) same positions) and steps+ and intolois) and advances) and advances)	116 000 100	
			EDO: IDO:	
			provent.	
			DEKWEN!,	
			IBM_IDB	
	22	((((prints same reduction same (media or medium or paper\$1) or sheet\$1 or substrate\$1) same position\$1) and step\$4 adj motor\$1) and control\$4) and advanc\$5) and increment\$4)	USPAT;	2002/12/27 13:34
		_	US-PGPUB;	
			EPO, JPO;	-
			DERWENT;	
			IBM TDB	
	27.7	nining terms hardlach	USPAT;	2002/12/27 13:35
			US-PGPUB;	_
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
	**	( braddlack) and auditorion	USPAT;	2002/12/30 10:07
•	2		US-PGPUB;	
			FPO IPO	
			DERWENT	
			ACT MAI	
			Trust.	36.01.06/01/0000
,	24	(backlash adj reduction) near2 (device\$1 or apparatus\$2 or system\$1 or mechanism\$1 or equiment\$1)	USPAT;	00:01 00:71 7007
			Carolino,	
			DER WENT	_
			in the man	
			IBM_IDB	2002/12/30 10:14
•	2	((backlash adj reduction) near2 (device\$1 or apparatus\$2 or system\$1 or mechanism\$1 or equiment\$1)) and print34	110 001 110.	
			CBO: DO:	
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	14	(backlash adj reduction) adj (device\$1 or apparatus\$2 or system\$1 or mechanism\$1 or equiment\$1)	-	2002/12/30 11:23
			US-PUPUB; EPO, JPO; DERWENT:	
	-	(ADOKS) sode ) and (Kookhosh adi reduction) adi (Aevice) for annaratus\$2 or system\$1 or mechanism\$1 or equiment\$1)	IBM_TDB USPAT;	2002/12/30 11:25
	•		US-PGPUB;	
_			DERWENT;	
	0	(400/624.ccls.) and (backlash adj reduction) adj (device\$1 or apparatus\$2 or system\$1 or mechanism\$1 or equiment\$1)	USPAT; US-PGPUB:	2002/12/30 11:26
			EPO; JPO;	
-	c	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	IBM_TDB USPAT:	2002/12/30 11:29
	>	(400/3.CCIS.) and (acklash ad reduction) ad (acticos) of apparations of agreements of agreements of agreements	US-PGPUB;	
			DERWENT;	
	•		IBM_TDB	2002/12/30 11:30
	>	(2717), ccis.) and (backtasn agj reduction) auj (device) to apparatuse of systems of medianisments)	US-PGPUB;	
			EPO; JPO; DERWENT:	
			IBM_TDB	
	0	(347/S.ccls.) and (backlash adj reduction) adj (device\$1 or apparatus\$2 or system\$1 or mechanism\$1 or equiment\$1)	USPAT; US-PGPUB;	2002/12/30 13:26
	_		EPO; JPO; DERWENT:	
			IBM_TDB	34.51 00/51/5005
	388	feeding adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)	USPAI;	2002/12/30 13:43
			EPO; JPO;	
			DERWENT;	
	96	(feeding adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)) and print\$4	USPĀT;	2002/12/30 13:37
			EPO, JPO,	
			DERWENT;	
		Mending and courted and (machanisms) or devices or annaratures or exeterns or equinments () and prints and backlash\$2	IBM_IDB USPAT;	2002/12/30 13:34
	1		US-PGPUB;	
			DERWENT:	
			IBM TDB	

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Ŀ		91	((feeding adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)) and print\$4) and stepp\$3	USPAT;	2002/12/30 13:34
•	***	4	E   E   E   E   E   E   E   E   E   E	EPO, JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2002/12/30 13:37
•	·	8	(paper or sheet or media or medium) adj feeding adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2002/12/30 16:33
		_	E   Chaper or sheet or media or medium) adj feeding adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)) and backlash   L	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/12/30 14:49
•		-	[[paper or sheet or media or medium or substrate) adj (feeding or delivering or conveying or advancing) adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or conveying or device\$1) and backlash	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/12/30 16:40
•		18	Interpret or sheet or media or medium or substrate) adj (feeding or delivering or conveying or advancing) adj control adj (mechanism\$1 or device\$1 or apparatus\$2 or system\$1 or equipment\$1)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/12/30 16:40
•		10	I   backlash near3 reduction adj system	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/01/06 12:16
•		en .	("4310236").PN.	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/01/08 13:44
				IBM_TDB	